Beyond Bibliographic Metadata

Augmenting the HKU IR
To make HKU research, skill and scholars highly visible!

With the expectation that KE indicators will increase,
- Collaborative research
- Contract research
- Media contact
- Consultation
- E-science
- 等々
Augmentation Begins,

- DSpace
- Development partner: CILEA of Italy
- So,
  - Publication data great but...

- Augmenting thin & dirty publication data with,
  - Clean & full metadata
  - Author profiles ➔ “ResearcherPages”
  - Grants
  - Patents
  - 等々
The HKU Scholars Hub is the institutional repository of The University of Hong Kong. As a key vehicle of HKU’s Knowledge Exchange Initiative, The Hub strives to make HKU authors and their research very visible, with the goal of increasing all forms of collaboration.

QUICK SEARCH OF THE HUB
Search the author, title, abstract and series fields.

FEATURED SCHOLAR
Dr Hau, TD
- Associate Professor
- Research Interests: Transportation economics, Public finance

HUB NEWS
- Jun 2012: HKU Knowledge Exchange Non-Academic Prize awarded to David Palmer and the Hub Team, for their success in making HKU research and scholars highly visible. Go Team!
- Apr 2012: DOI numbers added to each of the 19,750 HKU theses. Increased discovery and statistics.
- Feb 2012: New design and software for the Hub.

RELEVANT LINKS
- HKU’s Top 1%
- HKU Authors: OA Publishing
- Usage Stats & Downloads
- HKU most cited articles in Scopus
- HKU research on Web of Science
- HKU Research & Scholarship
- HKU Libraries OA Policy
- HK Open Access Committee
- Open Access Tracking Project
Publications!
Source: HKU Research Output System (ROS)

- New input methods, EndNote (RIS)
- Auto-populate using DOI & ISBN
  - DOI: CrossRef
  - ISBN: WorldCat
- ➔ clean metadata comes to the Hub
Scopus: Bibliographic Rectification

- Funded by HKU University Research Committee & Office of Knowledge Exchange (KEO)
- 1,500 HKU author with AU-IDs in Scopus
- Merge variant names
- Disambiguate like named individuals

→ clean & full metadata comes to the Hub
**Tam, Paul K H**

**Personal**

- **Name**: Tam, Paul K H
- **Other formats**: Tam, Paul K; Tam, Paul Kwong Hang; Tam, P. K. H.; Kwong Hang Tam, Paul; Tam, P. K. h.
- **Author ID**: 7202539421
- **Affiliation**: University of Hong Kong, Centre for Reproduction, Development and Growth, Pokfulam, Hong Kong

**Research**

- **Documents**: 335
- **References**: 5289
- **Citations**: 11692 total citations by 9879 documents
- **h Index**: 31
- **Co-authors**: 150 (maximum 150 co-authors can be displayed)
- **Web search**: 69563

**Subject area**: Medicine, Biochemistry, Genetics and Molecular Biology, Immunology and Microbiology

**Cited by since 1996**

- **This author has been cited**: 9
- **Recent cited works**:
Match & Choose Utility

- Match on,
  - DOI
  - ISBN
  - PMID
  - HKU ROS publication number
  - Scopus number
  - WoS number
  - 等々

- Merge completely, or,
  - Element by data element
Article: 360-deg profilometry: new techniques for display and acquisition

Abstract
Two optical methods are proposed for shape measurement and defect detection of curved surfaces in the form of a complete 360-deg profile of the object. The first one is the standard structured light approach. Display of the resulting data is the emphasis of this section. The second approach uses modulated structured light with a scanning digital camera for faster and simpler data acquisition. Quantitative processing is done off-line while real-time moire produces enhanced display of the defects for qualitative analysis.

ISSN 0091-3286
2011 Impact Factor: 0.959
2011 SCImago Journal Rankings: 0.089
People!
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<thead>
<tr>
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<th>Database</th>
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<td>HKU Registry</td>
<td>Communications Directory</td>
<td>Name, email, office, title</td>
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<td>-- ditto</td>
<td>Research Output System (ROS)</td>
<td>Publications data</td>
</tr>
<tr>
<td>-- ditto</td>
<td>-- ditto</td>
<td>Awards, honours, prizes</td>
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<tr>
<td>-- ditto</td>
<td>Community Service DB</td>
<td>Editorships, miscellaneous</td>
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<td>Research Committee Grants Application System</td>
<td>Grant, PI, Co-I, panel, keywords, funding, etc.</td>
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<td>Supervised students, thesis title, date, etc.</td>
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<td>Faculty, Department pages</td>
<td>Staff profiles</td>
<td>Research interests, picture, etc.</td>
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<td>HKU Communications &amp; Public Affairs (CPAO)</td>
<td>Media Contact Directory</td>
<td>Expertise, languages spoken &amp; written</td>
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<td>HKU Tech Transfer Office</td>
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</tbody>
</table>
HKU Researcher Page: Yam, VWW

Profile

Publications
- Articles (256)
- Conf. Papers & Presentations (147)
- Books & Book Chapters (8)
- Patents (8)
- Others (6)

Achievements
- Community Service (19)
- Honours, Awards & Prices (16)
- Supervision of Research Postgraduate Students (113)
- HKU Committee Appointments (36)

Grants
- Principal Investigator (83)
- Co-Investigator (15)

Bibliometrics
- External Metrics
- Internal Metrics

Professor Yam, Vivian Wing Wah

Tel: 2859 2153
Office: CYC 504
Dept: Dept of Chemistry
Faculty: Faculty of Science

Research Interests:
- Optoelectronic materials
- Spectrochemical and luminescence chemosensors and biolabels
- Photochromic and photoswitching materials
- Supramolecular assemblies and organogels
- Molecular electronics
- Nanoclusters and Nanomaterials

My URLs:
- Personal Page

Also Cited As:
- Yam, Wing-wah, Vivian
- Yam, VW
- Yam, V
**HKU Researcher Page: Solomon, JD**

**Mr Solomon, Jonathan Daniel**
- Acting Head, Dept of Architecture
- Assistant Professor

<table>
<thead>
<tr>
<th>Date</th>
<th>With</th>
<th>Honours / Awards / Prizes</th>
<th>Category</th>
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<tbody>
<tr>
<td>01-05-2010</td>
<td></td>
<td>Appointed co-Curator, U.S. Pavilion at the Venice Architecture Biennale 2010: Department of State, United States of America</td>
<td>Others</td>
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<tr>
<td>01-03-2010</td>
<td>Pryor, MR</td>
<td>First Prize, New Links, New Kwun Tong Design Ideas Competition: The Development Bureau, Urban Renewal Authority, Civil Engineering and Development Department of the Hong Kong Special Administrative Region</td>
<td>Research Achievement</td>
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<td>01-08-2009</td>
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<td>Citation Award: American Institute of Architects Northwest &amp; Pacific Region</td>
<td>Research Achievement</td>
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<td>01-05-2009</td>
<td></td>
<td>Merit Award, Open International Ideas Competition for Noise Barrier/Enclosure Design: Highways Department HK SAR, Environmental Protection Department HK SAR, The Government of the Hong Kong Special Administrative Region, The Hong Kong Institute of Architects, The Hong Kong Institution of Engineers, The Hong Kong Institute of Highways and Transportation, The Hong Kong Institute of Landscape Architects</td>
<td>Research Achievement</td>
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<tr>
<td>01-11-2008</td>
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<td>Merit Award for Interior Design, Oibotoms Gallery: American Institute of Architects, Hong Kong Chapter</td>
<td>Research Achievement</td>
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Professor Tsui, Amy Bik May

- Pro-Vice-Chancellor and Vice-President (Teaching and Learning)
- Chair of Language and Education

### Supervision of Research Postgraduate Students

<table>
<thead>
<tr>
<th>Admission Field of Study</th>
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<tr>
<td>2009 Phd Rong Xiaoyan</td>
<td>English Teacher Education</td>
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<tr>
<td>2008 Phd Imafuku Rintaro</td>
<td>Sociolinguistics, Discourse Analysis, Problem-based Learning Curriculum</td>
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<td>2005 Phd Yu Baohua</td>
<td>Cross-cultural Psychology and Applied Linguistics</td>
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<tr>
<td>2005 Phd Hanlitt Gay</td>
<td>Classroom Interaction, Small Class Teaching</td>
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<tr>
<td>2004 MPhil Intercultural Communication Yu Baohua</td>
<td>Cross-cultural adaptation and second language acquisition: a study of international students in universities of the People's Republic of China</td>
</tr>
<tr>
<td>2003 Phd Intercultural Communication Yu Baohua</td>
<td>How class size mediates student learning: case studies of Hong Kong secondary schools</td>
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<tr>
<td>2003 Phd Intercultural Communication Yu Baohua</td>
<td>The Impact of the process approach to the development of learning strategies in the classroom</td>
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Theses & Dissertations!
Silos, Separate & Unique

- Graduate School
- Student Information Service (Registry)
- Library catalogue

- Harvest, match, merge
- Write complete data back to 3 sources & Hub
**Postgraduate Thesis:** Quantifying the urban heat island (UHI) intensity in Hong Kong

<table>
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<th>Basic View</th>
<th>Metadata View</th>
<th>XML View</th>
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<tr>
<td><strong>Title</strong></td>
<td>Quantifying the urban heat island (UHI) intensity in Hong Kong</td>
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<tr>
<td><strong>Authors</strong></td>
<td>Siu, Leong-wai</td>
<td></td>
</tr>
<tr>
<td><strong>Issue Date</strong></td>
<td>2011</td>
<td></td>
</tr>
<tr>
<td><strong>Publisher</strong></td>
<td>University of Hong Kong (Pokfulam Road, Hong Kong)</td>
<td></td>
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<tr>
<td><strong>Abstract</strong></td>
<td>The definition and quantification of urban heat island (UHI), the air temperature differences between urban and rural areas, remains problematic. This is due in large part, to the difficulty of operationalizing the terms “urban” and “rural,” especially with regard to classifying the weather stations that provide data. This thesis studies the urban heat island (UHI) intensity in Hong Kong and there are three foci in the research. The first focus of this study is the determination of the urban and rural weather stations in Hong Kong. The Local Climate Zones (LCZ) system has been employed to classify 17 weather stations and field observation was the main technique to collect the necessary metadata. Six field trips were arranged in the summer of 2009 and 2010. Hong Kong Observatory Headquarters (HKO) is considered as the only representative urban station, whilst Tsing Yi Weather Station (TYW) is deemed as the representative rural station because of its Forest Zone (NCZ) classification. Ta Kung Ling station (TKL) is another reference rural site. The second focus is the quantification of the UHI intensities at six pairs of stations in Hong Kong and their diurnal and seasonal variations. The 19-year annual UHI intensities in Hong Kong suggest that the representative rural sites (TYW and TKL) also record representative UHI intensities for the region. The differences of the cooling rate at urban and rural stations drive the diurnal cycle of urban heat island. The seasonal variations of UHI intensities are also driven by the cooling rate differences of urban and rural stations in different seasons. Since the mean maximum urban cooling rate does not vary considerably throughout the seasons (0.4 – 0.5°C/hr), it is the alteration of the rural cooling rate (1.0 – 1.6°C/hr at TYW, 0.8 – 1.2°C/hr at TKL) which determines the seasonal variations of UHI intensities. The mean daily maximum UHI intensities in Hong Kong are greatest in winter. The final focus is the meteorological impacts on the UHI intensity in Hong Kong. Five meteorological elements, including air temperature, wind speed, vapour pressure, cloud cover, and cooling rate, have been separately investigated to establish their impacts on the UHI intensity. Under fine weather conditions, the first four elements are negatively related to the UHI intensity. Sixteen regression models were built after the use of stepwise procedures which optimize the combination of independent variables. Rural air temperature is considered the most important meteorological factor on the UHI intensity. The models also suggest that there are other factors affecting the UHI intensities in spring and summer.</td>
<td></td>
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<tr>
<td><strong>Advisors</strong></td>
<td>Perl, MR</td>
<td></td>
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<td><strong>Degree</strong></td>
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Grants (Projects)!
**Grant:** Reinforced concrete coupling beams with embedded steel plate

**General Research Fund (GRF)**

**Application**
- Eligibility
- Types of Research

**Academic Research**
- Basic research - research for the sake of advancing the frontiers of knowledge regardless of whether it would provide immediate benefit to mankind; and
- Applied research - efforts directed at meeting certain functional requirements which involve the application of theories to specific areas or for specific purpose, and/or enhance man's existence in the short to medium term.

**Contact Research**
Efforts which would lead to the delivery of a product or process and could involve both basic and applied research, though the latter is much more prevalent. Contract research is client-specific and is generally sponsored and financed by the client who can be either a private company or a public body or the Government.

**Criteria for Consideration of Competitive Bids**

**Basic View**

<table>
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<th>Project Title</th>
<th>Reinforced concrete coupling beams with embedded steel plate</th>
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<tr>
<td>Principal Investigator</td>
<td>Su, Kai Leung</td>
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<td>Co-Investigator(s)</td>
<td>Pam, Hoat Joen</td>
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<tr>
<td>Funding Year</td>
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<td>Amount</td>
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<td>Start Date</td>
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<td>Expected Completion</td>
<td>30-09-2005</td>
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<td>Status</td>
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**Grant Type/Funding Scheme**
- Merit Award for RGC GRF Funded Projects

| Duration | 24 |
| Objectives | N/A |

**Publication**
- Effects of shear connectors on plate-reinforced composite coupling beams of short and medium-length spans
- A survey on axial load ratios of structural walls in medium-rise residential buildings in Hong Kong
- Seismic behaviour of slender reinforced concrete shear walls under high axial load ratio
- Experimental study on embedded steel plate composite coupling beams
- A brief summary of parametric study of plate-reinforced composite coupling beams
- Strengthening of reinforced concrete coupling beams by bolted steel plates
- The effects of shear connectors on plate-reinforced composite coupling beams
- A study of bolted connections of external plate strengthened coupling beams
- Assessment of seismic drift demand and capacity of buildings in Hong Kong
- The short-arc demand of coupling beams under potential seismic loads in Hong Kong
Patents!
## Patent Sources

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<tr>
<td>US</td>
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<td></td>
<td>Patentscope</td>
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<td>Espacenet</td>
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<td>US, chemistry</td>
<td>SciFinder</td>
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<tr>
<td>EU</td>
<td>European Patent Office</td>
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<tr>
<td>Japan</td>
<td>Japan Patent Office</td>
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<tr>
<td>China</td>
<td>SIPO (State Intellectual Property Office of the PRC)</td>
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**Granted Patent:** Luminescent Gold (iii) Compounds, Their Preparation, And Light-emitting Devices Containing Same

### Basic View

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<th>Title</th>
<th>Luminescent Gold (iii) Compounds, Their Preparation, And Light-emitting Devices Containing Same</th>
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<td>Granted Patent</td>
<td>US 7572912</td>
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<tr>
<td>Granted Date</td>
<td>2009-08-11</td>
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</table>
| Inventors | Yam, Vivian Wing Wah  
Wong, Keith Man Chung  
Kwok, Hoi-sing  
Zhu, Xiuling |

**Abstract:**

A class of luminescent gold(III) compounds with a tridentate ligand and at least one strong, sigma-donating group having the chemical structure represented by the general formula ([#STR00001#] in which R.sub.1 and R.sub.4 each independently represent the group containing hydrogen, halogen, alkyl, substituted alkyl, alkyld, substituted aryl, heteroaryl, substituted heteroaryl, alkoxy, substituted alkoxy, amino, substituted amino, cyano, nitro, alkylcarbonyl, alkoxycarbonyl, arylcarbonyl, arylalkylcarbonyl, mono- or dialkylaminocarbonyl, alkylcarbonyloxy, arylcarbonyloxy, arylalkylcarbonyloxy, arylalkylcarbonyloxy group, and the like; X, Y and Z each independently represent a heteroatom or a carbon; ###STR00002### represents an aromatic or heterocyclic 5- or 6-membered ring; alpha and beta each independently represent a bridge for an aromatic or heterocyclic 5- or 6-membered ring or represent a break for non-cyclic moiety; C=O, C\^-Y \text{and} C^\text{-Z each independently represent a single bond or double bond, n represents a zero or an integer, p, q and r represent positive integers.}

**Persistent Identifier:** http://hdl.handle.net/10722/142108

**Cites US 20030040627**
Published Patent: Methods using Lycium barbarum extracts as neuroprotective agents for retinal ganglion cells degeneration

Title: Methods using Lycium barbarum extracts as neuroprotective agents for retinal ganglion cells degeneration

Priority Date: 2005-02-25 US 11/066628

Inventors: So, KF
Yuen, WH
Chang, RCC
Zee, SY

Citation: US Published patent application US 20050196478. Washington, DC: US Patent and Trademark Office (USPTO), 2005 [How to Cite]

Abstract: An Lycium barbarum extract demonstrates a neuroprotective effect on damaged retinal ganglion cells, preventing and preserving retinal ganglion cells from degeneration in the treated subjects after chronic and traumatic neuronal injury or glaucoma. Compositions include an effective amount of an agent and a pharmaceutically acceptable vehicle.

Persistent Identifier: http://hdl.handle.net/10722/45673

Publication: Neuroprotective effects of anti-aging oriental medicine Lycium barbarum against b-amyloid peptide neurotoxicity
Visualizations!
Has Visibility Increased?
I must say that the HKU ResearcherPage team did an amazing job. Even without my direct input in the first place, they were able to compile a list of my publications and other accomplishments in a near complete version. After a couple of cycles of communication between the team and myself, I now have a full account of my publications and other accomplishments online that I can share with anyone who might be interested in my research. Best of all, I know that this information is in the safe hands of trained professionals so I don't need to worry about updating and can spend more time on my research.
--- Professor, Department of Physiology

“Many thanks for your works!!! Based on information of my [ResearcherPage], I was chosen as an editor for a new book "Tumor Suppressor Genes" last year.” -- Doctor, Clinical Oncology
Number of Visits increased 667.25%

(SEO) Site has become stickier.

Source: Google Analytics
DSpace-CRIS Module(s)
The whole lot,
  - ResearcherPages, new objects (projects, depts, etc), author cumulated statistics, author editing, SOLR faceted displays, kitchen sink, 等々

Because,
  - HKU’s Knowledge Exchange
  - Shared code means shared development, mutual benefits

Packaged in Dspace, Contributed to DSpace in several separate modules & patches
  - Article metrics, Enhanced statistics, CRIS entities, JSPUI- Dspace-Discovery, 等々
  - Not take it entire or leave it.
Give feedback on the mailing lists:
- dspace-tech@lists.sourceforge.net
- dspace-general@lists.sourceforge.net

Developers & technicians can go to GitHub, download the code, try to build, report bugs, enhancement requests, etc.
- https://github.com/CILEA/dspace-cris

And,
- Find our poster!
- Talk to Andrea Bollini of CILEA!
Thank You

謝謝您

Grazie

شكرا لك

Thank You

謝謝您

Grazie

धन्यवाद

Thank You

謝謝您

Grazie
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Archived at,

http://hdl.handle.net/10722/152525